Itona TC14yy

Hardware User's Guide

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Federal Communication Commission (FCC) Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment Off and On, the user is encouraged to try to correct the interference by one or more of the following measures:

- Re-orient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio / television technician for help.

Each Thin Client is equipped with a FCC compliance label that shows only the FCC identification number. The full information of the associated label is as follows:

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and

2. This device must accept any interference received, including interference that may cause undesired operation.

Warning

- DO NOT open enclosure, Hazard voltages present inside equipment.
- Ensure that all expansion slots (on the back or side of the computer) are covered with metal retaining brackets, and tightly attached to the computer cabinet.
- Only equipment certified to comply with Class B (computer input/output devices, terminals, printer's etc.) should be attached to this equipment, and must have shielded interface cables.
- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.
- This equipment should not be used in Electro-medical applications.
- There are no user serviceable parts inside. DO NOT open enclosure, Hazard voltages present inside equipment. DO NOT disassemble the equipment as this can nullify your warranty
- DO NOT operate this equipment in corrosive or explosive atmosphere.
- DO NOT operate this equipment outside specified temperature limits.
- This equipment must be earthed.
- The AC socket outlet shall be installed near the equipment and shall be easily accessible.
- Sound Power Level is less than 60dB (A), when measured according to ISO 7779.

Preface

Thank you for purchasing the Itona TC14yy Series Thin Client. This guide contains information to setup and use the hardware of Itona TC14yy Series.

The guide consists of the following chapters:

- **Introduction**: provides an overview of the product.
- **Installation**: contains the procedure to setup the hardware.
- **Specifications**: provides hardware, mechanical, electrical, interface and operating environment specifications.
- **Connectors and Cables**: provides detailed specifications for connectors and cables used with the product.
- **Troubleshooting**: provides solutions to problems that you may encounter while using the product.

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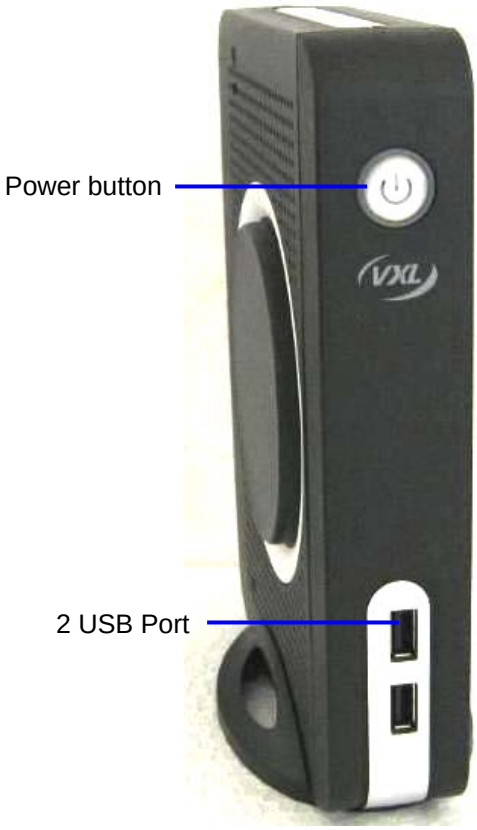
Introduction

Overview

Thin Clients are essentially terminal devices that connect to multi-user application servers operating under Citrix MetaFrame and Windows 2000/ 2003 operating systems.

This guide covers installation and hardware details of Itona TC14yy Series.



Itona TC14yy

Itona TC14yy Series deliver smart and robust solutions for Thin Client computing. They are aesthetically and ergonomically designed compact desktop, providing simultaneous full screen connectivity to Windows and UNIX application servers – a powerful business alternative to users using Win32 applications while continuing access to legacy UNIX applications.

They communicate with application servers via the ICA protocol developed by Citrix Systems Inc., Remote Desktop Protocol from Microsoft and a host of other popular connectivity protocols. Please refer to the Software User's Guide for information about connection protocols supported by your model.

Features

The product is equipped with a 10/100/1000 Ethernet port that gives an instant connection to a multi-user Windows NT application server. Also provided video display port. USB compatible keyboard/Mouse ports are available for quick setup and use.

Optional Features

Installation

This chapter describes hardware installation of the product.

Step One: Unpack

Unpack the unit taking care not to drop the product whilst removing from the packaging.
The carton in which the product was shipped to you contains the following:

- Itona TC14yy Series Thin Client
- Power Adapter AC-DC 12V / 2A
- Power Cord
- Pedestal
- Wall / VESA Mounting Bracket (Optional)
- Mouse (Optional)
- Hardware Installation Guide

When you open the carton, if you find any discrepancy between the contents of the carton and the above list, contact the dealer or reseller from whom you have purchased the product, immediately.

NOTE: PLEASE RETAIN THE ORIGINAL CARTON AND PACKING MATERIAL. THEY WOULD BE REQUIRED TO AVOID DAMAGE DURING TRANSIT (IF REQUIRED IN FUTURE).

Step Two: Prepare

1. The site where you want to install the product must have the following
   - 100~240V AC, 0.65A, 50/60 Hz, 2-pin power Inlet for Power Adapter.

NOTE: ENSURE THAT THE POWER INLET PLUG IS PROPERLY REGULATED AND EARTHED. A FLOATING GROUND / CHASSIS COULD CAUSE AN ELECTRIC SHOCK.

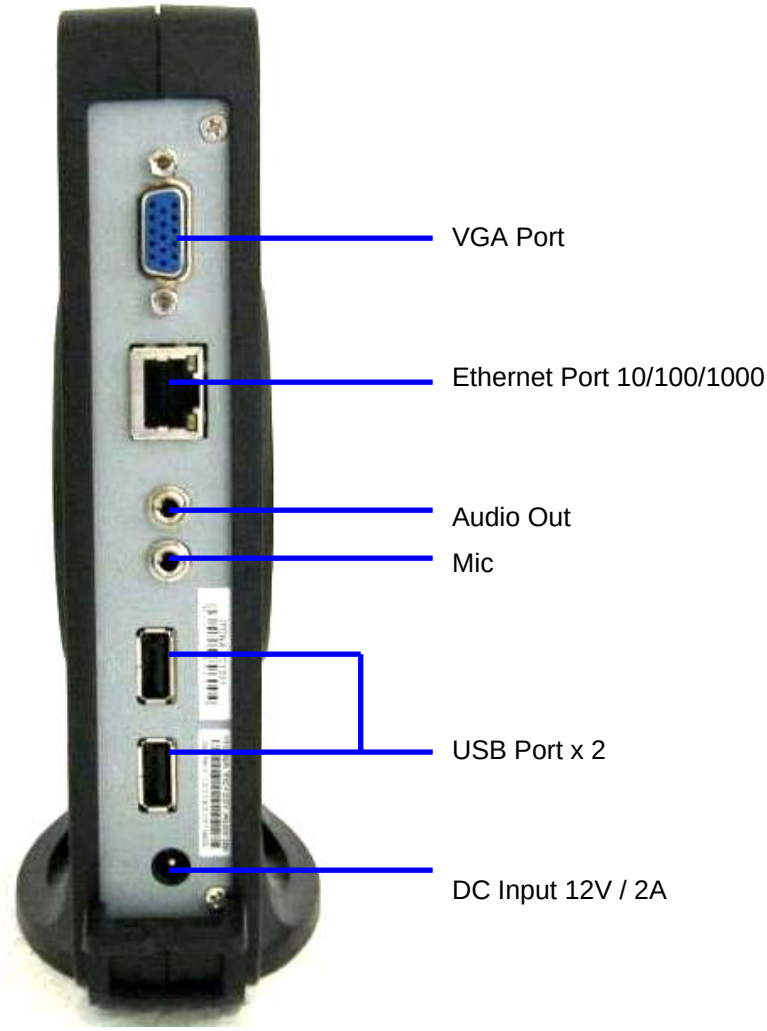
   - Fix the pedestals at the bottom of the Itona TC14yy.
   - Well ventilated, clean, dry and dust free atmosphere
   - Specified environmental conditions (refer to the section on specifications)
   - Table or desk of suitable size.

2. Place the product on the table in a location that provides quick and easy access to the power Inlet plug to shutdown the power in emergencies.
3. Ensure a minimum space of 2 inches (5 cm) on all sides of the unit for efficient convection cooling.

Step Three: Connect accessories and power

NOTE: BEFORE CONNECTING ANY CABLES, ENSURE POWER CABLE IS UNPLUGED FROM THE UNIT. PLEASE USE 6A (MIN) / 250V AC 0.75 sq mm, H05VV-F CERTIFIED POWER CORD.

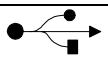
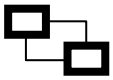
Pictures below show the various connectors available on the rear panel of the client.



Itona TC14yy

Rear view

The table below identifies the devices to be used with each connector of the client.

Instructions to connect various accessories	**Connector Symbol**
✓ Connect the video cable from your display unit to the video port	
✓ Connect USB devices to the USB ports	
✓ Connect external powered speakers to the audio output(LINE OUT) port	
✓ Connect microphone to the Microphone input port	
✓ Connect LAN cable to the RJ45 Ethernet port	
✓ Connect DC 12V 2A Power Adapter to DC Jack	12V DC

Caution:

1. Ensure that Video ports are adequately fastened with the screws provided with the cables.
2. Ensure the Power Rating Spec before Connecting Power Cable.

Step Four: Connect to the Server

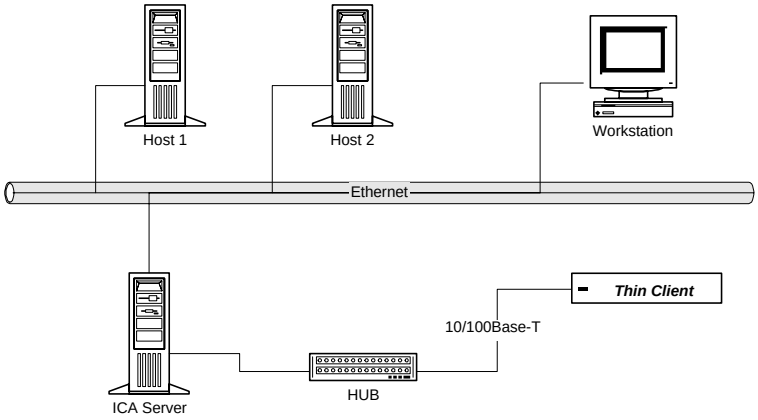
The Thin Client can be physically connected to the server/network ways:

- LAN connection through TCP/IP

LAN connection through TCP/IP

Connect one end of a 10/100/1000 cable to the LAN port of the client. Connect the other end to a LAN hub as shown in the figure below.

LAN Connection through TCP/IP



Press the power button to power up the Itona TC14yy. The front panel LED lights up and the client boots up with a BEEP sound and takes you to the Connection Manager screen. Refer to the *Software User's Guide* for configuring the client.

Specifications

Hardware

- Processor: AMD LX600 ,366 MHz
- VGA Memory: Shared Video Memory 32MB min
- Flash : IDE 44-Pin Right angle
- RAM: On Board 256MB
- Networking 10/100/1000 Mbps
- Power supply External Adapter
- Maximum Display resolution 1680x1050 60Hz 16/32 bit

Mechanical

Itona TC14yy

- Height: 190 mm.
- Width: 36.5 mm.
- Depth: 142 mm.
- Weight: 0.7 Kg (max)

Environmental Operating

- Temperature : + 5°C to +35°C
- Storage temperature: - 20° C to +60°C
- Humidity: 20% to 80% RH Max non-condensing

Electrical Power

- 2.0A/12V External Adapter,24 Watts

Regulatory Certifications

RoHS

Connectors and Cables

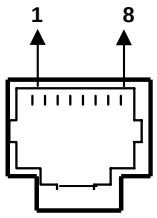
Connectors

The following tables provide pin details for various connectors on the rear panel of the client.

10/100/1000 LAN Port

RJ-45 modular 8-pin jack. 10/100/1000 Mbps

Pin	Signal
1	TxD+
2	TxD-
3	RxD+
6	RxD-



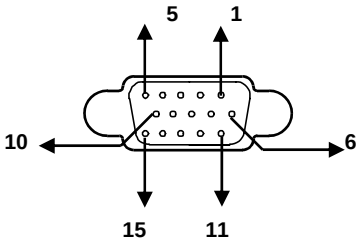
Video Port

15-pin D-type female connector

Pin	Signal
1	Red
2	Green
3	Blue
4	No Connection
5	GND

Pin	Signal
6	Red return GND
7	Green return GND
8	Blue return GND
9	No Connection
10	No Connection

Pin	Signal
11	No Connection
12	No Connection
13	Horizontal Sync
14	Vertical Sync
15	No Connection



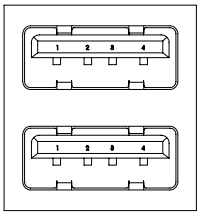
Audio / Microphone Port

Standard audio jacks.

USB Port

4-pin series-A receptacle. 4~ 5 ports depending on the model. Both USB1.1 and USB2.0 models are available.

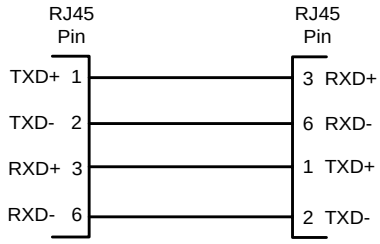
Pin	Signal
1	VCC
2	D-
3	D+
4	GND



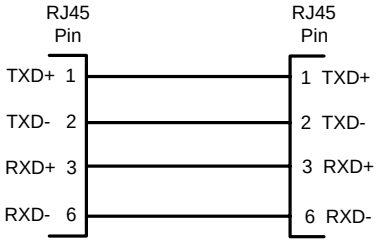
Cables

10/100/1000 LAN Cable

Cross Connection - (Without Hub)



Straight Connection - (With Hub)



Troubleshooting

This chapter contains solutions for problems you may encounter while using the product.

Problem	***Solution***
• The Power-LED on front panel does not glow when the client is switched on.	✓ Ensure that the power cord is plugged into an AC outlet. ✓ Check the fuse in the power-plug, if available.
• There is no display, though the power-indicating LED glows.	✓ Ensure that the video cable is properly connected.
• The mouse (*or* keyboard) does not work when the client is switched on.	✓ Ensure that the mouse (*or keyboard*) is plugged into the correct USB port on the rear panel